

MAR 30 2007

Application No.: 10/674,049  
Art Unit 2179

## AMENDMENTS TO THE CLAIMS

1 (Currently amended). In a document imaging system (100) including a document imaging server (31) and a user client device (1), the document imaging server including a plurality of document images stored therein, and the client device including a display unit (5), a method for the document imaging system to display a stored document image to a user (2), thus forming a displayed document image, and ~~A method for an imaging system to form a user interface for the~~ [[a]] user to accept the displayed document image or else request a document image modification to the [[a]] displayed document image, the method comprising:

by the client device, communicate (205) to the server a user document image request to display a stored document image, the user document image request including a user identification corresponding to the user and a document image identification (915) corresponding to the stored document image to be displayed;

by the document imaging server:

- ~~(a) receive (301, 302) the~~ retrieve a user identification based on the user;
- ~~(b) and the~~ retrieve a document image identification as communicated from the client device corresponding to the displayed document image;
- ~~(c) retrieve (305) a stored document image content (55) corresponding to the displayed document image;~~
- ~~(d) retrieve a document metadata corresponding to the displayed document;~~
- ~~(e) retrieve (315) a document image modification request history (80)~~ corresponding to the displayed document image;

by the server and the display unit:

- ~~(f) form and display (325) to the user a document image content rendering (405) based on the stored document image content (55);~~
- ~~(g) form and display a document metadata rendering based on the document metadata;~~
- ~~(h) form and display (340) a document image modification request history rendering (440) based on the retrieved document image modification request history (80);~~

Application No.: 10/674,049  
Art Unit 2179

(i) form and display (330) a user displayed document image accept means (420) for the user to accept the displayed document image;

(ii) form and display (335) a user request displayed document image modification means (430) for the user to request a document image modification of the displayed document image; and

\_\_\_\_\_ by ~~whereby~~ the user :

\_\_\_\_\_ either ~~will~~ accept (220) the displayed document image ~~content rendering and the document metadata rendering~~ by activating the user displayed document image accept means or else request a document image modification of the displayed document image ~~content rendering and the document metadata rendering~~ by activating the user request displayed document image modification means,

\_\_\_\_\_ where each document image modification comprises any of the following steps:

\_\_\_\_\_ (i) \_\_\_\_\_ run a de-skew algorithm (756) in connection with the displayed document image;

\_\_\_\_\_ (ii) \_\_\_\_\_ run a noise reduction algorithm (758) in connection with the displayed document image; and

\_\_\_\_\_ (iii) \_\_\_\_\_ retrieve and re-scan (757) by means of an included document scanning conversion device (90) the original hardcopy document (95) corresponding to the displayed document image.

Claims 2-4 (Canceled).

5 (Currently amended). The method of claim 1 ~~claim 4~~, wherein the user displayed document image accept means (420) comprises ~~comprising~~ a user click button.

6 (Currently amended). The method of claim 1 ~~claim 4~~, wherein the user request displayed document image modification means (430) comprises ~~comprising~~ a user click button.

Claims 7-15 (Canceled).

Application No.: 10/674,049  
Art Unit 2179

16 (Currently amended). In a document imaging system (100) including a document imaging server (31) and a user client device (1), the document imaging server including a plurality of document images stored therein, the client device including a display unit (5) to display a document image that has been retrieved from the document imaging server and currently is being displayed, thus forming a displayed document image, a ~~[[A]] method for an imaging system to form a user interface for a user (2) to request to communicate to the imaging system a desired document image modification in [[a]] the~~ displayed document image, comprising:

by the document imaging server imaging system:

~~(a)~~ retrieve (505) a document image identification corresponding to the for a displayed document image, determine (510) a document image type and determine (515) a first set of allowable document image modifications (810, 815, 820) based on the document image type;

retrieve (525) a user identification corresponding to the user;

retrieve (530) a request document image modification history (80) comprising a second set of previous document image modification requests corresponding to the displayed document image;

~~(b) determine a document type based on the document identification;~~

~~(c) determine a set of allowable modification types based on the document type;~~

by the server and the display unit:

~~(d)~~ form and display (520) a rendering (805) of the first set of allowable image modifications corresponding to the displayed document image; modification types, the rendering of the allowable modification types including modification selecting means for the user to select one or more of the allowable modification types;

~~(e) retrieve a user identification based on the user;~~

~~(f) retrieve the request history of all previously submitted modification requests;~~

~~(g) form and display a rendering of the request history, the rendering of the request history including information from image modification requests previously submitted and including means for the user to select one of the previously reported image modification~~

Application No.: 10/674,049  
Art Unit 2179

~~requests that describes the modification that the user desires to make to the current displayed document;~~

form and display a first selecting means (811, 816, 821) for the user to select at least one allowable document image modification;

form and display a rendering (850) of the second set of previous document image modification requests corresponding to the displayed document image;

form and display a second selecting means (79, 851) for the user to select at least one previous document image modification request that describes the document image modification that the user desires to make in the displayed document image; and

~~(h) by the user, using the second selecting means to select at least one previous document image modification request communicate to the imaging system the desired modification in the current displayed document by the user's selection of the previously requested modification ;~~

where each document image modification comprises any of a de-skew (756) of the displayed document image, a noise reduction (758) of the displayed document image and a retrieval and a re-scan (757) by means of an included document scanning conversion device (90) of an original hardcopy document (95) corresponding to the displayed document image;

and where each document image modification request comprises a request for any of a de-skew (756) of the displayed document image, a noise reduction (758) of the displayed document image and a retrieval and a re-scan (757) by means of an included document scanning conversion device (90) of an original hardcopy document (95) corresponding to the displayed document image.

Claims 17-31 (Canceled).

Application No.: 10/674,049  
Art Unit 2179

32 (Currently amended). In a document imaging system (100) arranged to provide document imaging services, the document imaging system including at least one document image stored therein and arranged to be displayed as a displayed document image, a method for a user (2) to request a document image modification in the displayed document image, the method comprising, by the document imaging system:

~~A method of modifying a displayed document in an imaging system, comprising:~~

~~(a) by a user, communicating to the imaging system a modification request that the displayed document needs to be modified, the modification request including a description of the problem in the displayed document; and~~

~~by the imaging system:~~

~~(b) receiving the modification request;~~

~~(c) based on a plurality of predetermined modification methods, determining which modification method best addresses the modification request, and selecting the modification method so determined, thus forming a selected modification method;~~

~~(d) applying the selected modification method to the document, thus forming a modified document; and~~

~~(e) storing the modified document~~

provide a first selecting means for the user to select a document image modification that the user desires to make in the displayed document image;

provide a second selecting means for the user to select a previously-requested document image modification that previously has been requested in connection with the displayed document image; and

by the user, use the first selecting means to select a document image modification that the user desires to make in the displayed document image or else use the second selecting means to select a previously-requested document image modification, which previously-requested document image modification describes the document image modification that the user desires to make in the displayed document image.

Application No.: 10/674,049  
Art Unit 2179

33 (New). The method of claim 16 where the first selecting means comprises a first group of checkboxes, where each checkbox of the first group of checkboxes corresponds to exactly one member of the first set of allowable document image modifications and where the first group of checkboxes is arranged to be selectively activated by the user to select at least one allowable document image modification.

34 (New). The method of claim 16 where the second selecting means comprises a second group of checkboxes, where each checkbox of the second group of checkboxes corresponds to exactly one member of the second set of previous document image modification requests and where the second group of checkboxes is arranged to be selectively activated by the user to select at least one previous document image modification request and including a step, by the user, of selecting at least one previous document image modification request by activating the corresponding checkbox of the second group of checkboxes.

35 (New). The method of claim 32 including provide a display of a set of document image modifications, which document image modifications are allowed in connection with the displayed document image.

36 (New). The method of claim 35 where the first selecting means comprises a first group of checkboxes, where each checkbox of the first group of checkboxes corresponds to exactly one member of the set of document image modifications and is arranged to be selectively activated by the user to thereby select the corresponding document image modification.

Application No.: 10/674,049  
Art Unit 2179

37 (New). The method of claim 35 where the document image modification comprises any the following:

- (i) run a de-skew algorithm (756) in connection with the displayed document image;
- (ii) run a noise reduction algorithm (758) in connection with the displayed document image; and
- (iii) retrieve and re-scan (757) by means of an included document scanning conversion device (90) the original hardcopy document (95) corresponding to the displayed document image.

38 (New). The method of claim 32 including provide a display of a set of previously-requested document image modifications that previously have been requested in connection with the displayed document image.

---

39 (New). The method of claim 38 where the second selecting means comprises a second group of checkboxes, where each checkbox of the second group of checkboxes corresponds to exactly one member of the set of previously-requested document image modifications and is arranged to be selectively activated by the user to thereby select the corresponding previously-requested document image modification.

40 (New). The method of claim 38 where the previously-requested document image modification comprises any of the following:

- (i) run a de-skew algorithm (756) in connection with the displayed document image;
- (ii) run a noise reduction algorithm (758) in connection with the displayed document image; and
- (iii) retrieve and re-scan (757) by means of an included document scanning conversion device (90) the original hardcopy document (95) corresponding to the displayed document image.

Application No.: 10/674,049  
Art Unit 2179

41 (New). The method of claim 32 where the at least one document image stored in the document imaging system is formed by scanning an original hardcopy document (95) by means of an included conversion device (90).